

CLAIMS

Please AMEND claim 16 and ADD claims 115-119, as follows. A status of all claims is provided below.

1-15 (cancelled).

16. (currently amended) A method for minimizing and/or eliminating need for human operator attention in energy management of a building system, comprising:

non-human, computerized processing of obtained energy, control and equipment status data communicated over a network, wherein the obtained energy, control and equipment status data is for at least one energy user in the building,

said processing including (A) automatic determination of whether at least one energy-relevant event is present or (B) continual optimization of a setting of the at least one energy user, ~~and~~

requesting at least one curtailment possibility from said at least one energy user, and
processing the at least one curtailment possibility generated by said at least one energy user ~~based on rules~~ when the at least one relevant energy-related event is determined to be present, wherein the at least one energy user generates the at least one curtailment possibility based on rules associated with the energy user, the rules defining context for determining minimal impact to building occupants served by the at least one energy user.

17. (original) The method of claim 16, wherein the energy-relevant event is a threat of a new maximum peak.

18. (original) The method of claim 17, wherein the peak is selected from the group consisting of a kW demand peak, a lighting peak, a carbon dioxide peak and a pollutant peak.

Serial No.: 10/092,507

19. (original) The method of claim 16, including, when a energy-relevant event is automatically determined to be present, immediately activating an automatic response to the energy-relevant event.

20. (original) The method of claim 19, wherein the automatic response is non-determinative.

21. (original) The method of claim 17, wherein at least one intelligent agent, from the obtained energy data, actually forecasts the peak.

22. (original) The method of claim 19, wherein the energy-relevant event is a threat of a new maximum peak, and the immediately activated automatic response includes energy reduction interventions to avoid the new maximum peak.

23. (original) The method of claim 16, wherein the automatic determination of whether at least one energy-relevant event is present comprises application of artificial intelligence.

24. (original) The method of claim 23, wherein the artificial intelligence is selected from the group consisting of neural networks; rule-based expert systems; and goal-based planning systems.

25. (original) The method of claim 16, wherein more obtained energy data is processed in a given time period than could be processed by a human being.

26. (original) The method of claim 16, wherein the building system comprises at least two buildings.

27. (original) The method of claim 16, including machine-based learning from the obtained data and/or machine-based constructing a model from the obtained data.

Serial No.: 10/092,507

28. (original) The method of claim 16, wherein the building system includes a building or buildings selected from the group consisting of at least one university building; at least one hotel building; at least one hospital building; at least one car dealership building; at least one shopping mall; at least one government building; at least one chemical processing plant; at least one manufacturing facility; and any combination thereof of buildings.

29. (original) The method of claim 16, wherein at two least buildings are under management and are geographically dispersed.

30. (original) The method of claim 16, wherein a human operator is not needed.

31. (original) The method of claim 16, wherein the building system includes at least two buildings and the at least two buildings are commonly owned or not commonly owned.

32. (previously amended) The method of claim 16, including automatic documentation of energy savings attributable to any automatic intervention(s).

33. (original) The method of claim 16, including machine-based reasoning to select between at least two conflicting goals.

34. (original) The method of claim 33, wherein the machine-based reasoning is to select between a market price goal and a comfort-maintenance goal.

35. (original) The method of claim 16, including a computerized display of energy data and/or device.

36. (original) The method of claim 16, including, on human demand, computerized forecasting; computerized simulation of an effect or effects of a proposed control action; and/or computerized reporting on simulation at various levels of aggregation.

Serial No.: 10/092,507

37. (original) The method of claim 36, wherein the aggregation level for the computerized reporting is at an individual device, at everything in a building, at a set of buildings, or everything commonly owned.

38-93. (cancelled)

94. (withdrawn) A compilation of energy-relevant data, comprising: an electronic stream of energy, control and equipment status data for at least one individual energy user within a plurality of computer controlled energy users, wherein the electronic stream of data is compiled in real-time by the at least one individual energy user and is received by a management system to control performance of the at least one individual energy user, said electronic stream including a data field to indicate an energy efficiency of the at least one individual energy user based on pre-set rules and at least one data field indicating one or more of (a) a physical property of air; (b) a physical property of light; (c) motion sensed by motion detectors and (d) chemical or biological warfare agent detection.

95. (withdrawn) The compilation of claim 94, wherein the at least one individual energy user is within a multi-building system wherein separate streams of data are provided for other individual energy users within the multi-building system.

96. (withdrawn) A data analysis method, comprising leveraging an electronic stream of energy, control and equipment status data for at least one individual energy user within a plurality of computer controlled energy users, wherein the leveraging includes a comparison by a rules based computer based intelligent agent against historic data for a device associated with the at least one energy user wherein the electronic stream of data is compiled in real-time by the at least one individual energy user and is received by a management system to control performance of the at least one individual energy user.

97. (withdrawn) The data analysis method of claim 96, wherein the leveraging includes computer-based searching for rapid deviation from a historic pattern.

Serial No.: 10/092,507

98. (withdrawn) A method of determining whether to repair or replace an individual energy user including a plurality of components, comprising:

reviewing an electronic stream of energy, and equipment status data for the individual energy user, wherein the individual energy user is contained within a plurality of computer controlled energy users; and

replacing or repairing at least one of the components of the individual energy user when deemed inefficient by a rules and goal based computerized intelligent agent based on the data.

99. (withdrawn) The method of claim 98, wherein the plurality of energy users are contained within a multi-building system.

100-112. (cancelled).

113. (previously presented) The method of claim 16, wherein the step of processing at least one curtailment possibility further includes processing an obtained energy curtailment response.

114. (withdrawn) The compilation of energy-relevant data of claim 94, wherein the electronic stream of energy, control and equipment status data further includes an energy curtailment response.

115. (New) The method of claim 16, wherein the at least one energy user is part of a building management system.

116. (New) The method of claim 16, further comprising the step of specifying a specific energy alteration offer as part of the at least one curtailment possibility.

117. (New) The method of claim 16, further comprising the step of evaluating different environmental factors in conformance with the rules to generate the at least one curtailment possibility specific to the at least one energy user, in response to the requesting step.

Serial No.: 10/092,507

118. (New) The method of claim, 117, wherein the step for evaluating includes evaluating at least one of: a weather condition, time of day and temperature.

119. (New) The method of claim 117, wherein the step of evaluating excludes a curtailment possibility based on the rules.